

Figure 1

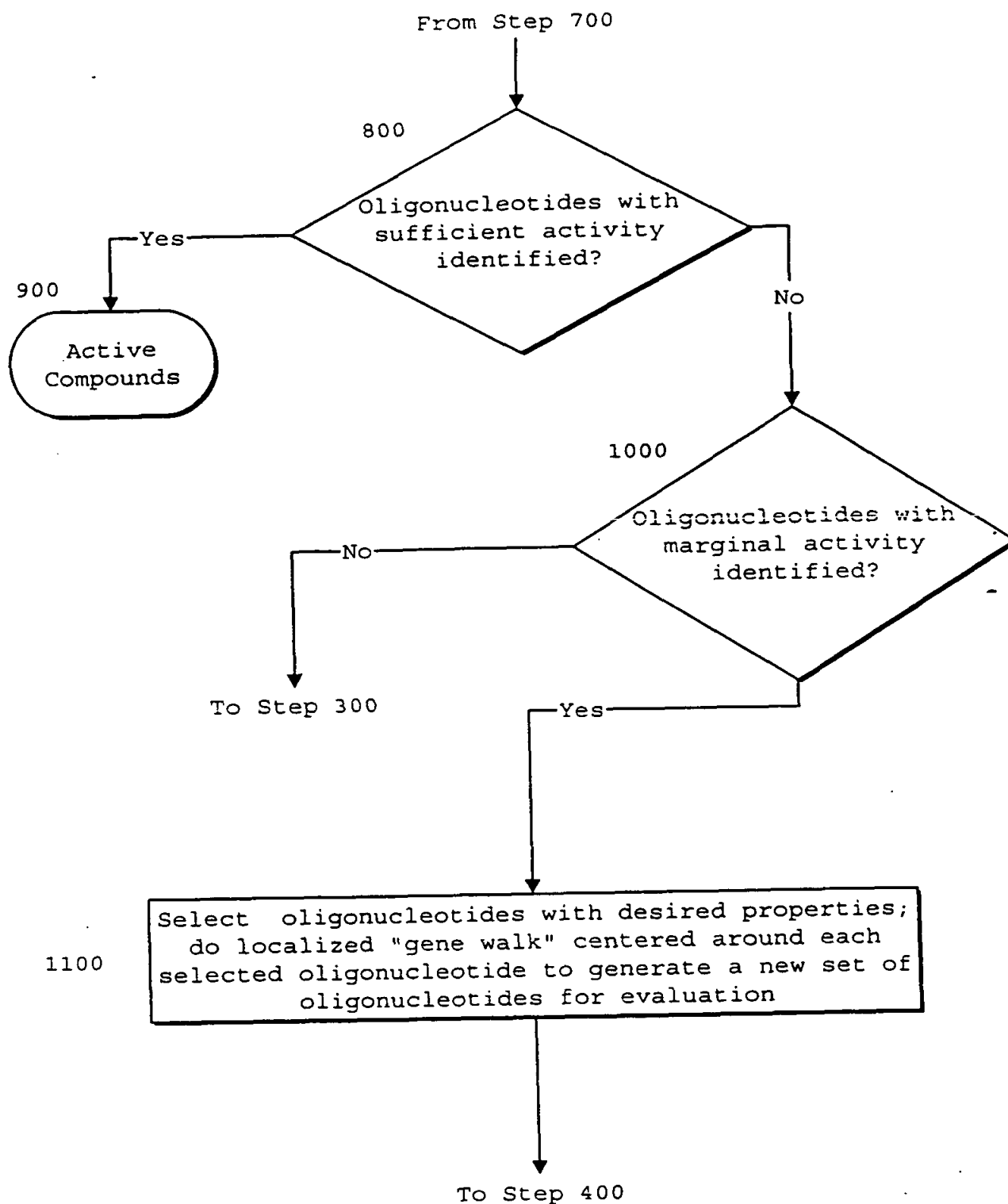


Figure 2

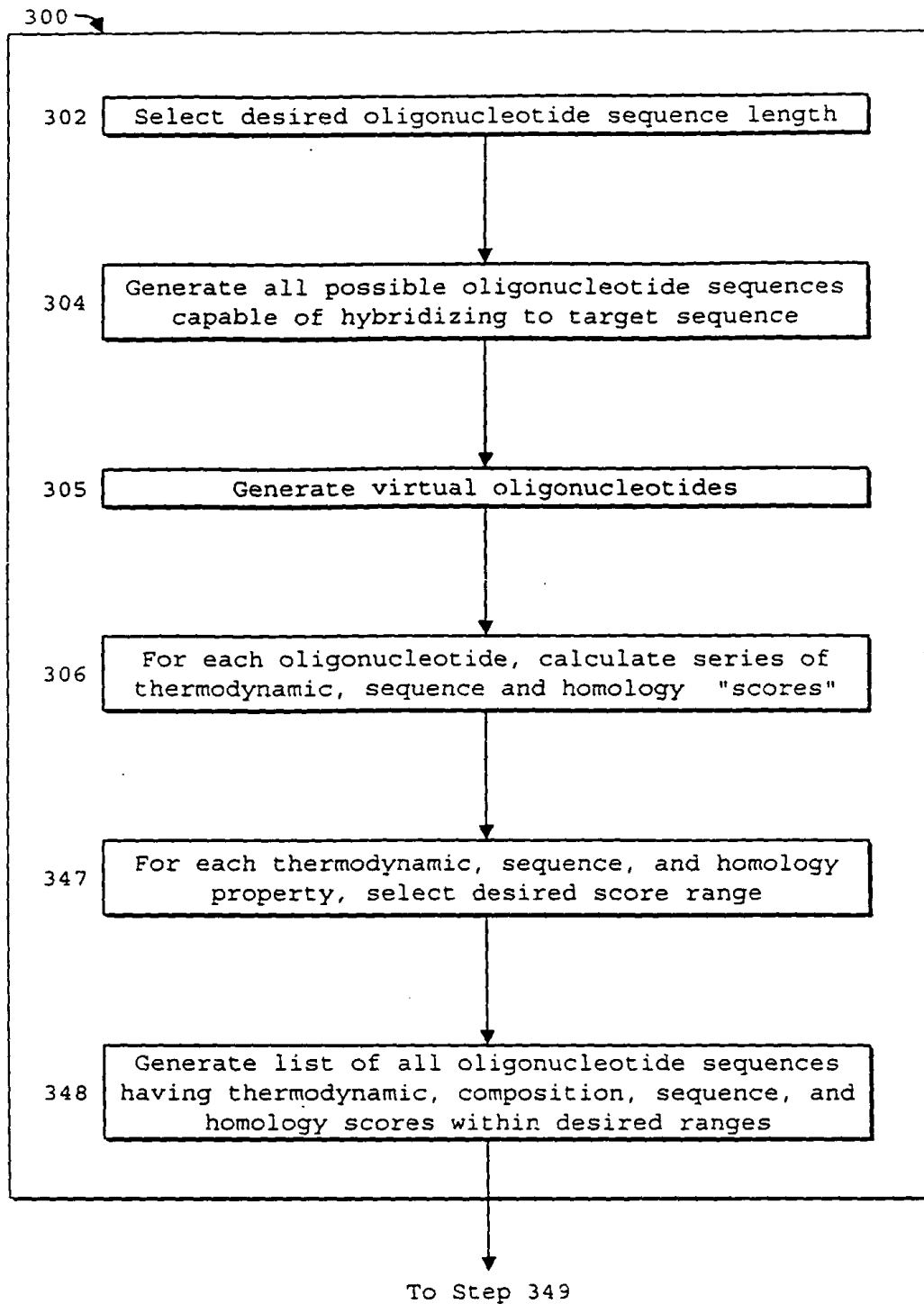


Figure 4

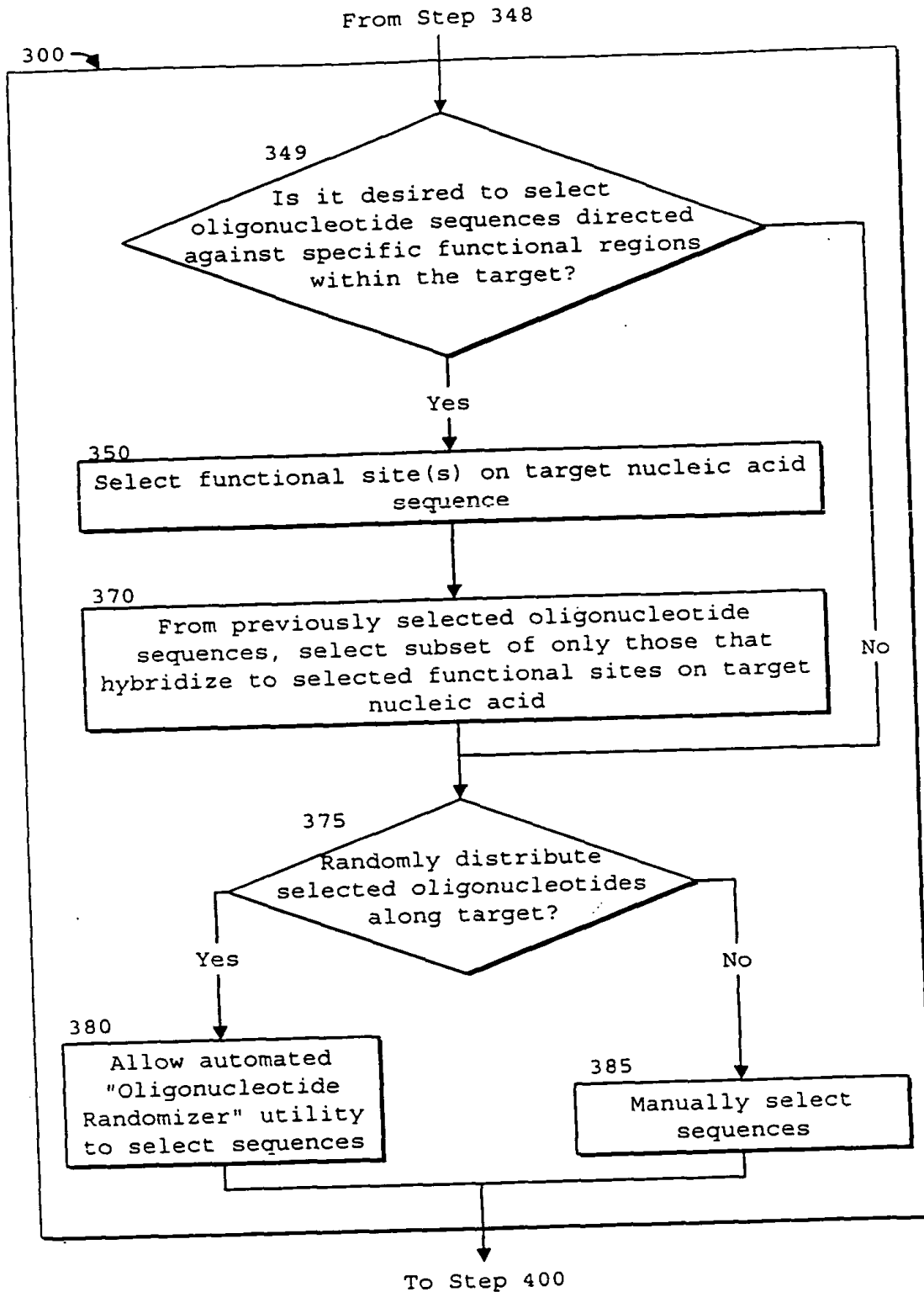


Figure 5

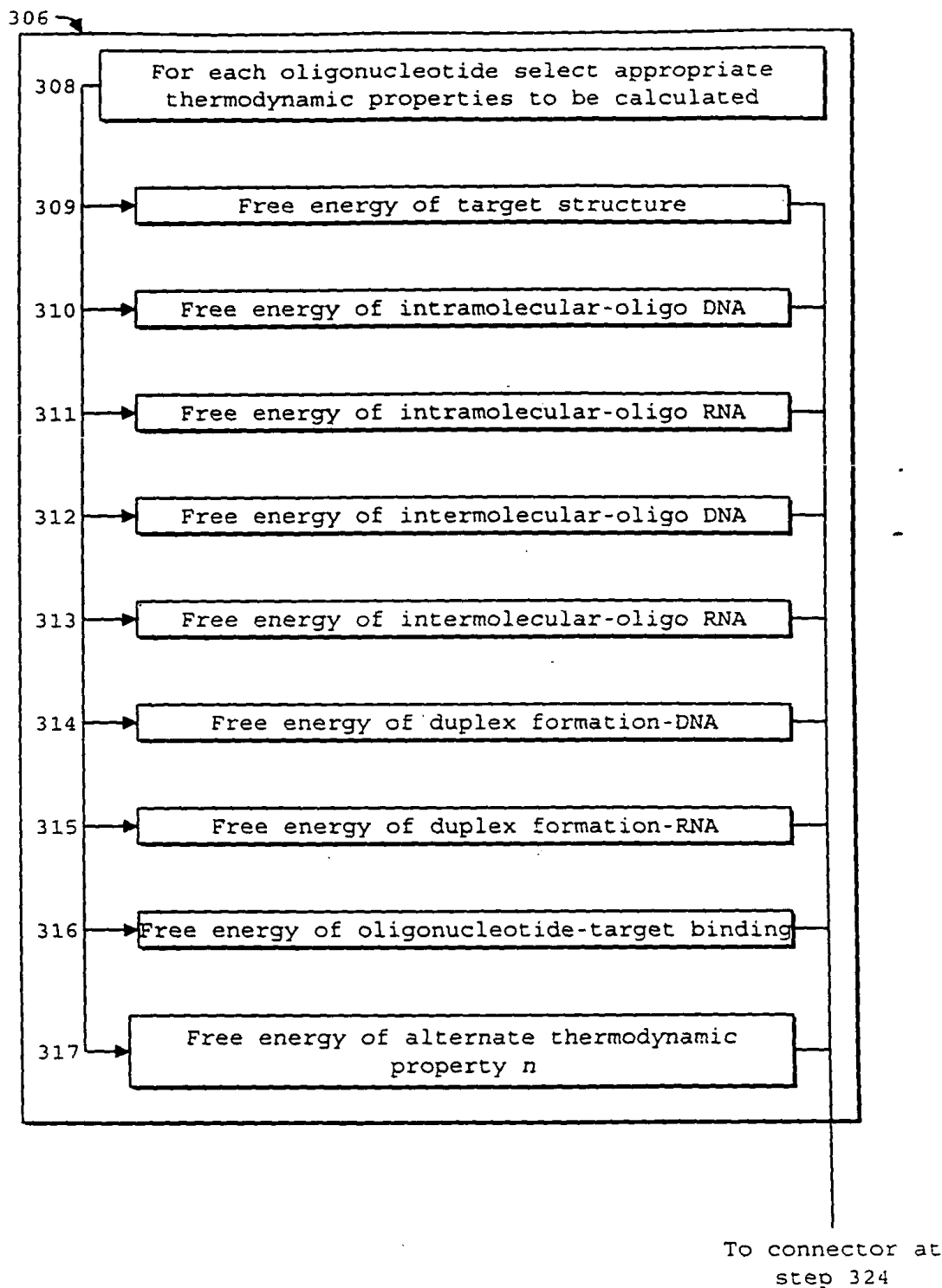


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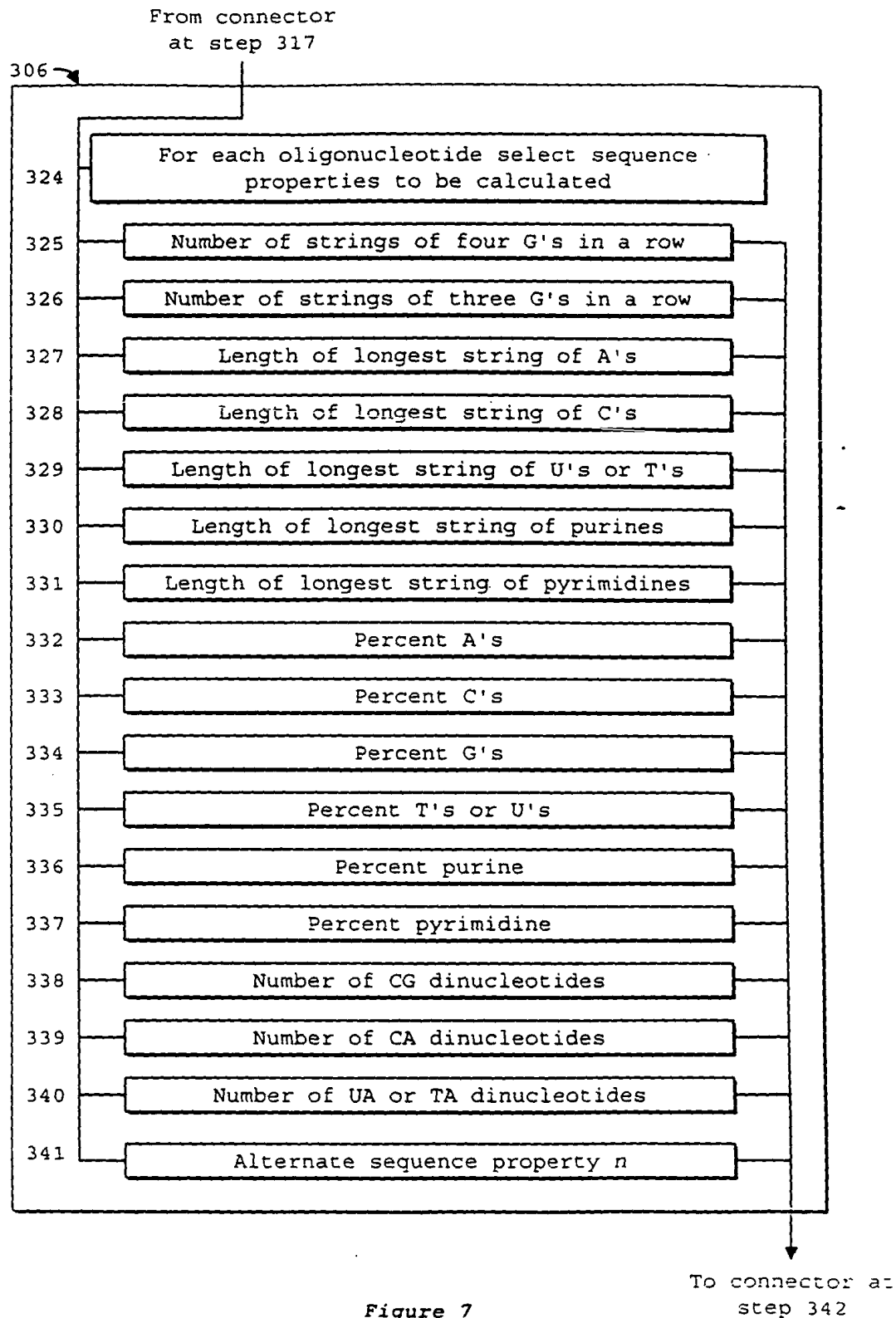


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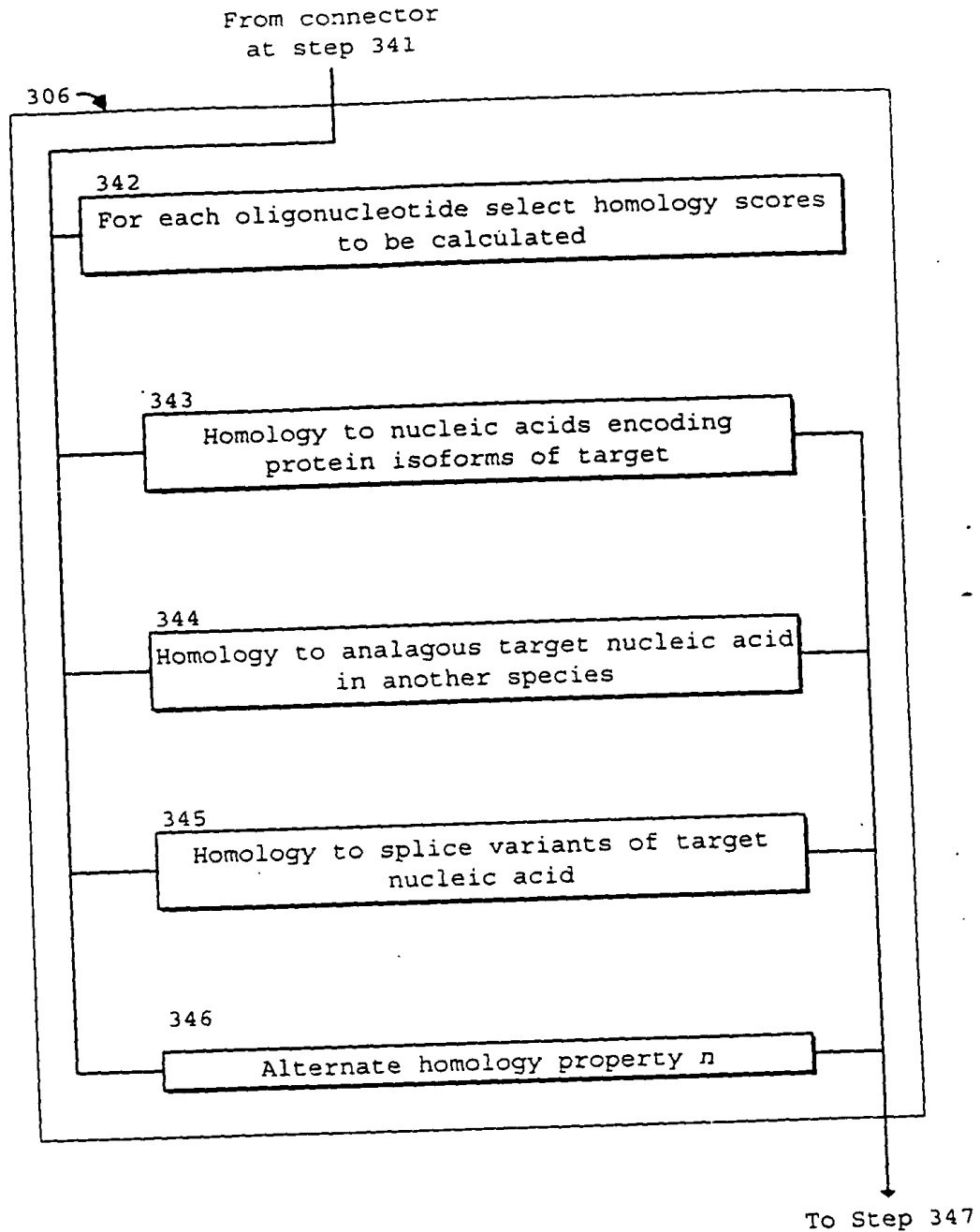


Figure 8

350

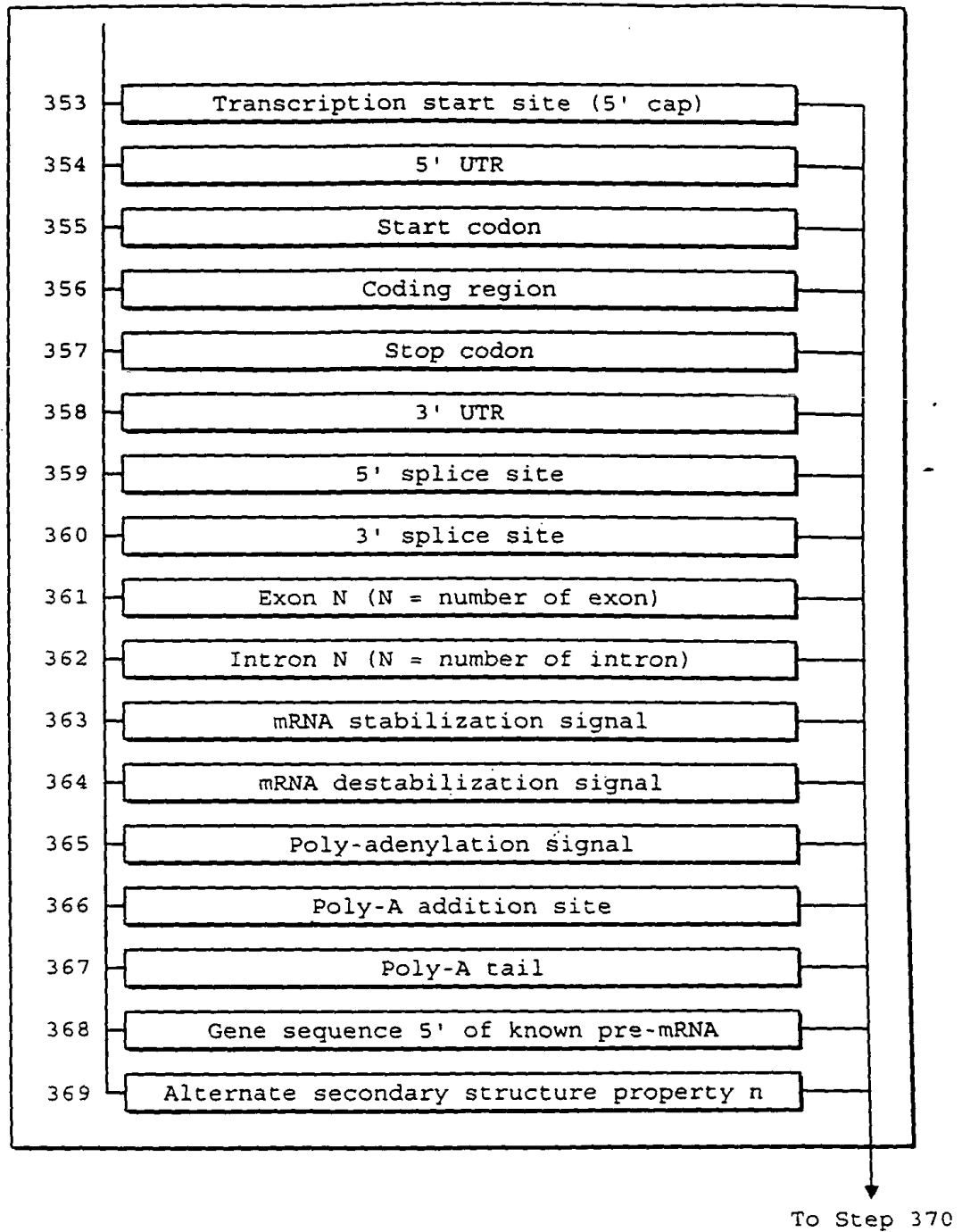


Figure 9

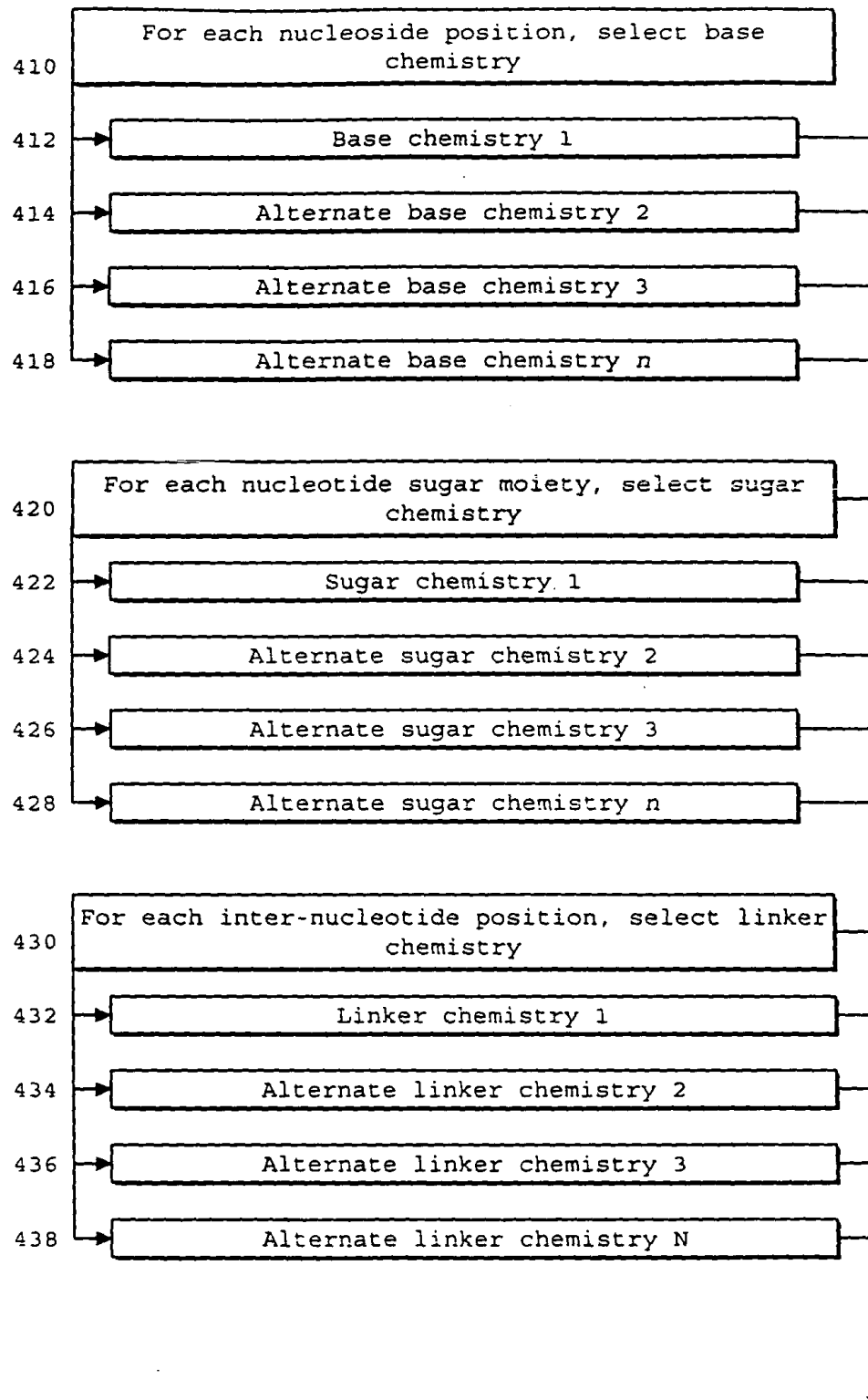


Figure 10

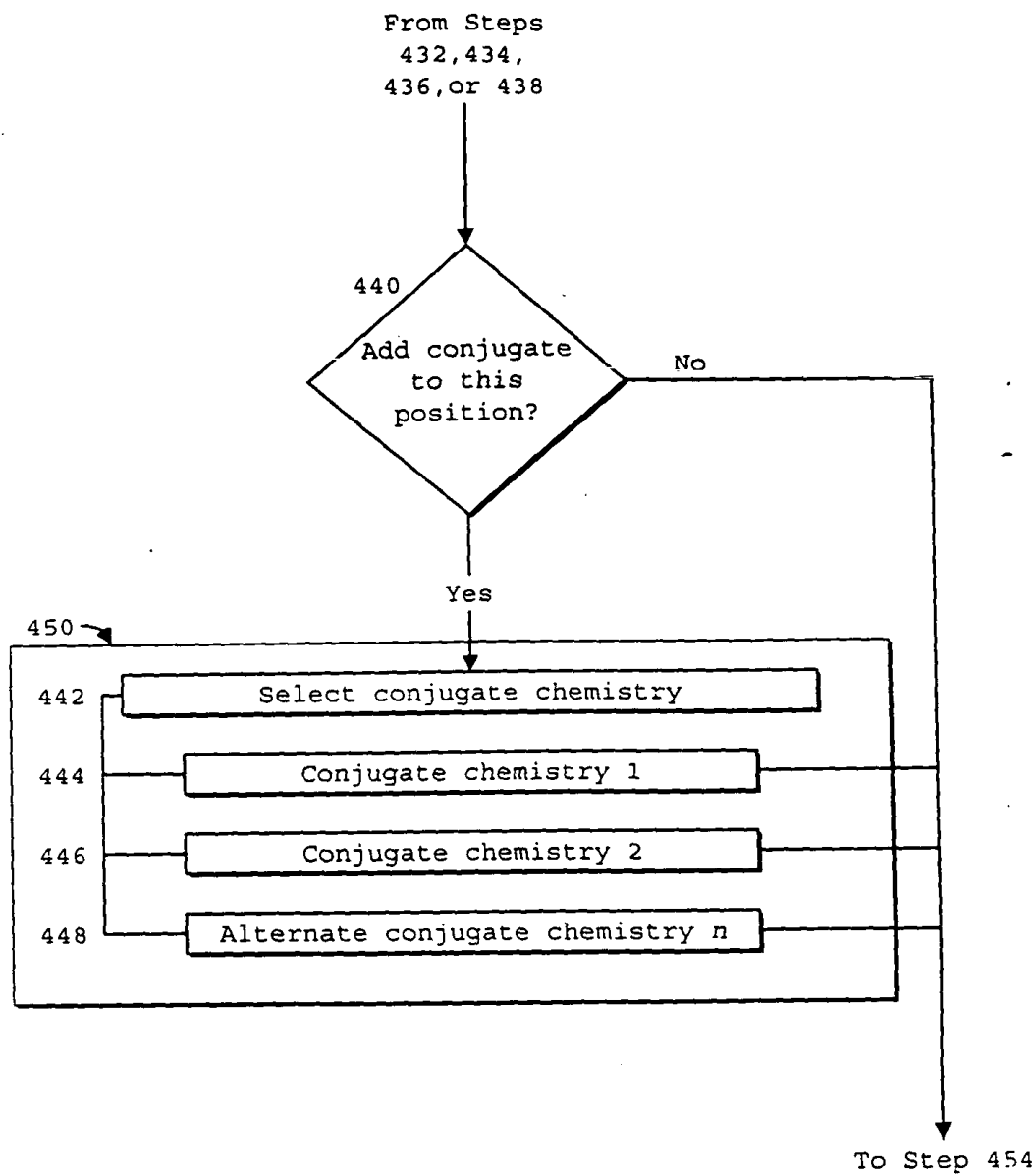


Figure 11

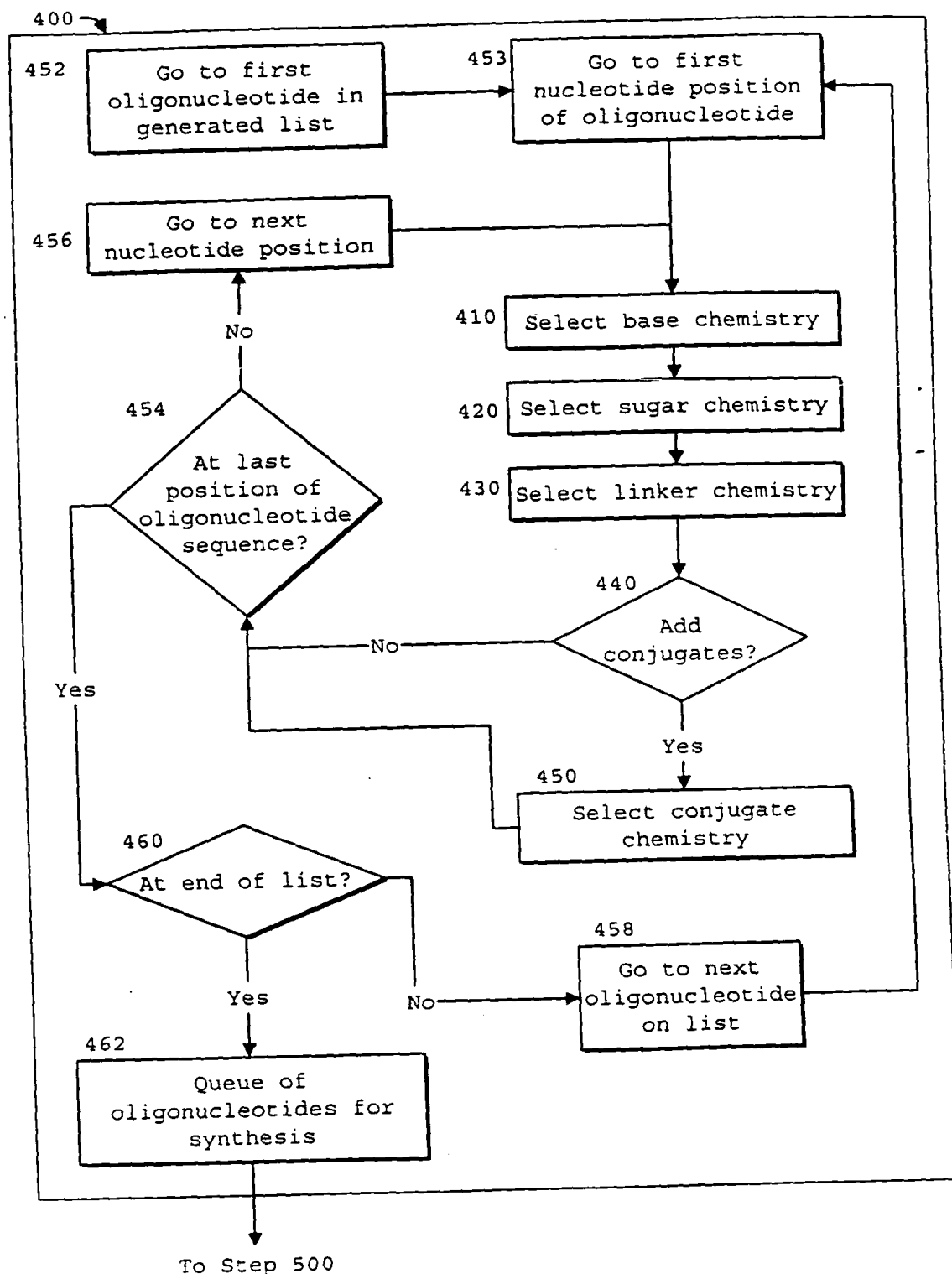


Figure 12

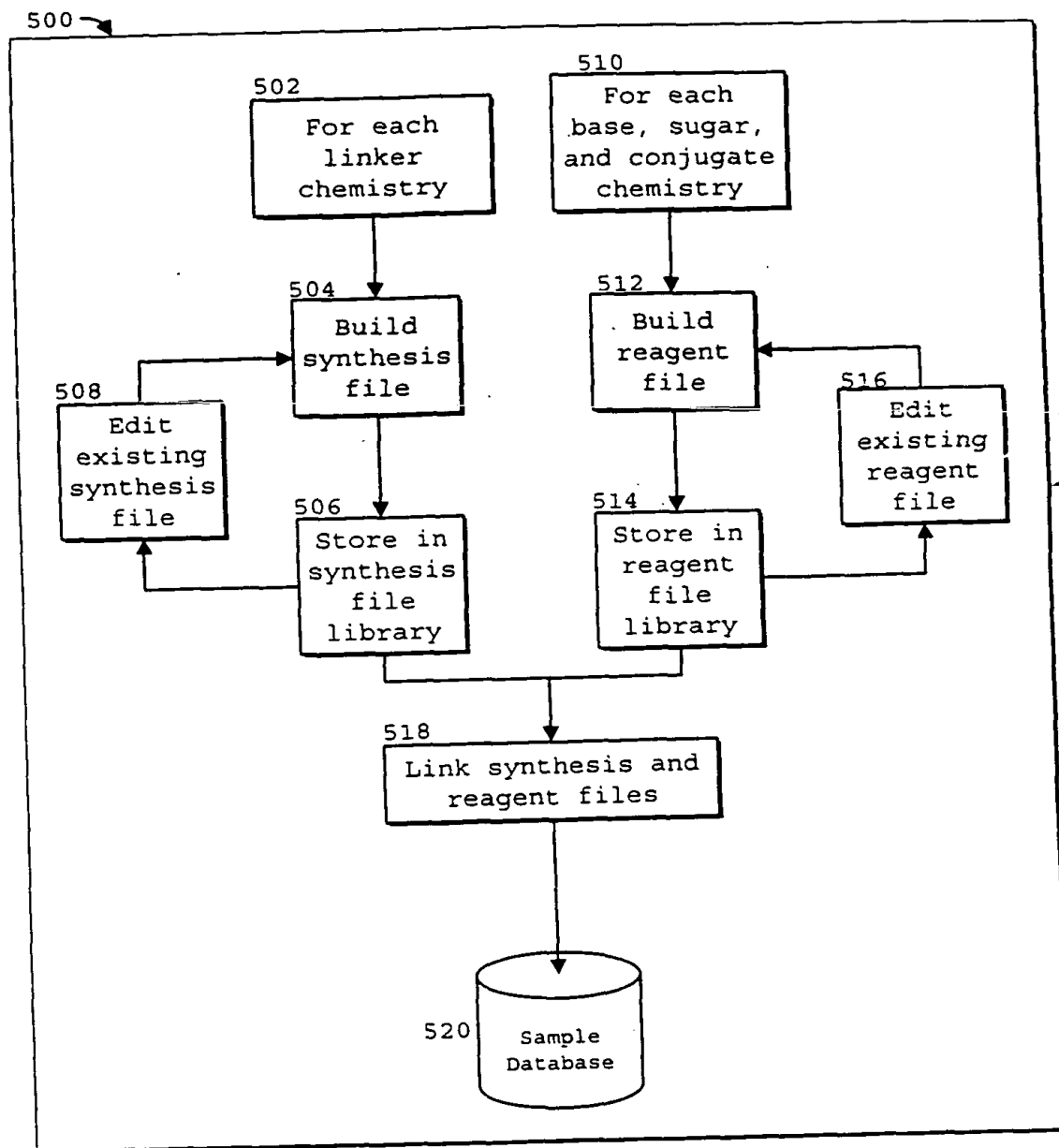


Figure 13

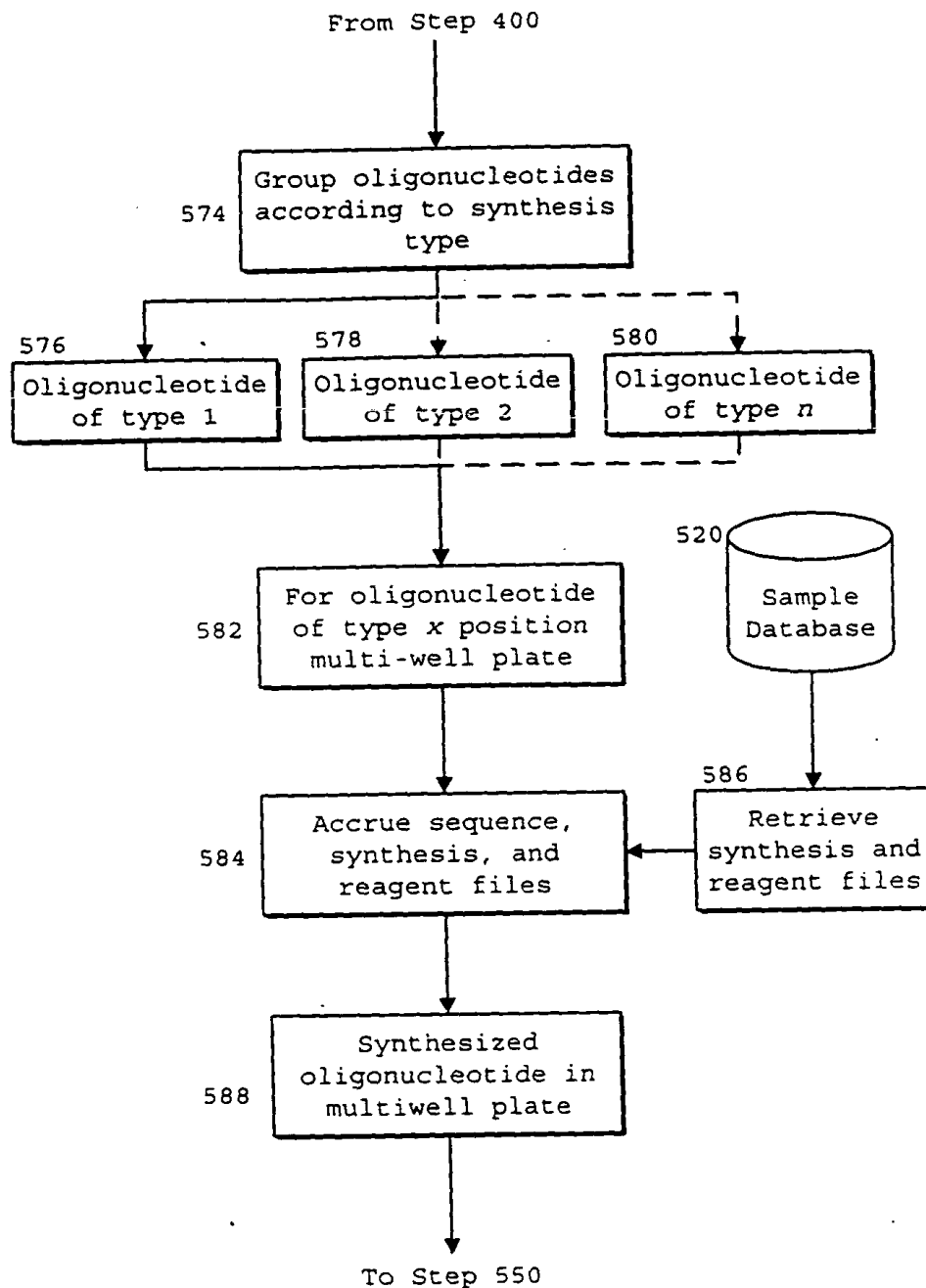


Figure 14

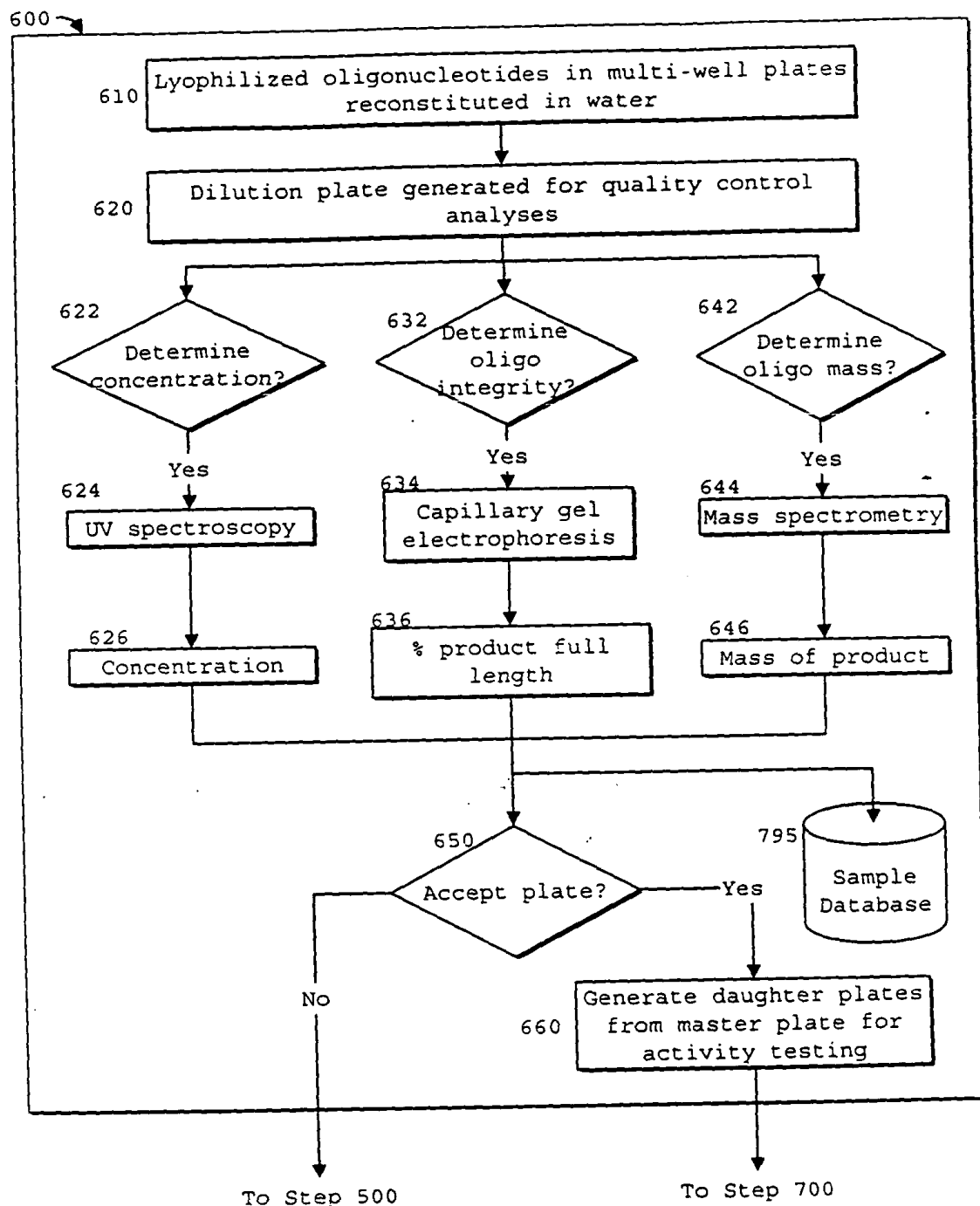


Figure 15

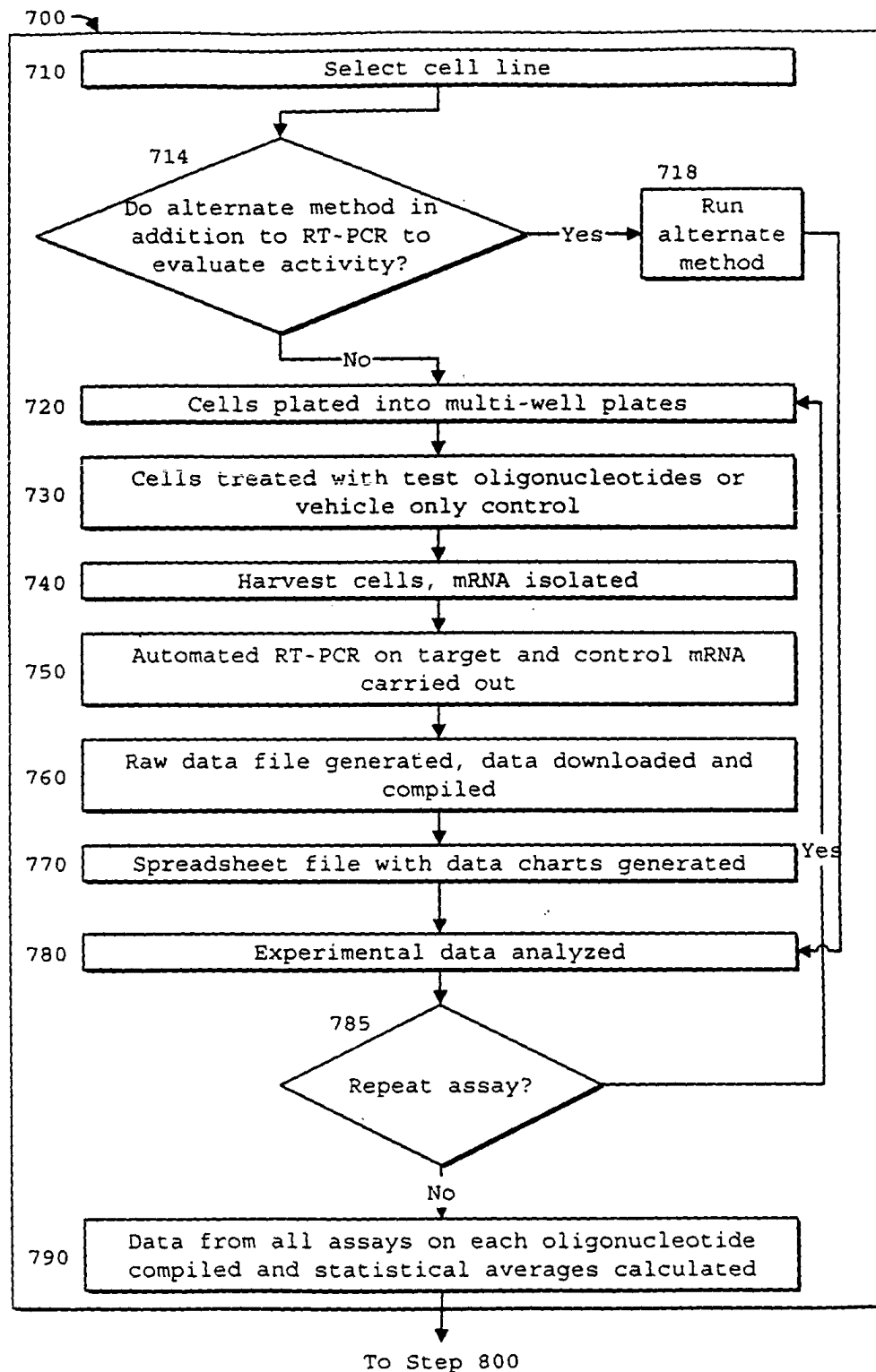


Figure 16

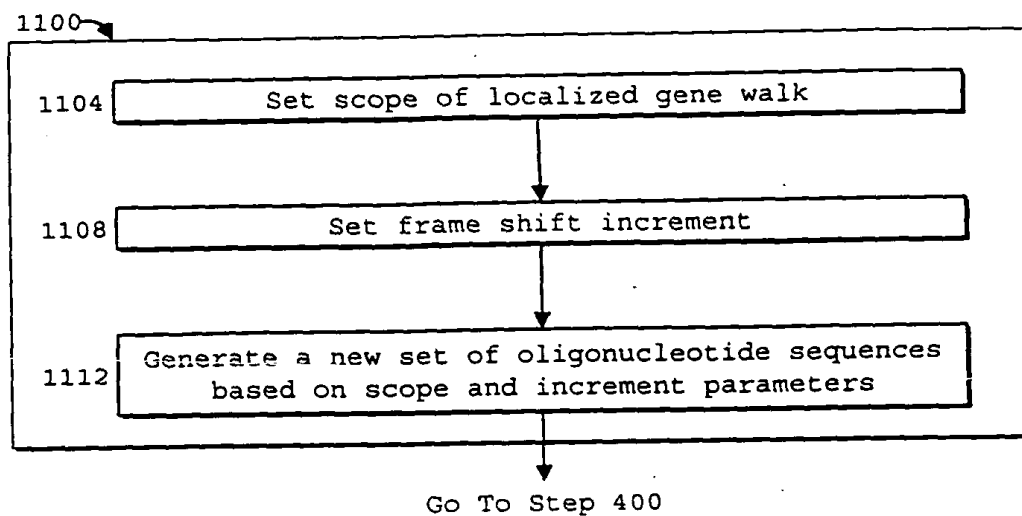


Figure 17

Figure 18 is a schematic diagram of a laboratory network architecture. The diagram shows a central backbone connecting various servers, workstations, and specialized equipment. The backbone is divided into three segments: Net 1 (100Mbit), Net 2 (100Mbit), and Net 3 (100Mbit). Each segment is connected to a bridge (Bridge 1, Bridge 2, Bridge 3) which then connects to the respective network devices. The devices are organized into three main groups: 2002 (Database Server, Compute Engine, File Server, Firewall), 2004 (Optical Density Plate Reader, Liquid Chromatography Mass Spec, 8 Probe Automated Liquid Handling, Capillary Gel Electrophoresis, WindowsNT Workstations), and 2006 (Imaging Gel Reader, WindowsNT Workstations). The diagram also shows connections to The Internet (2012) and an Automated Synthesizer (2014).

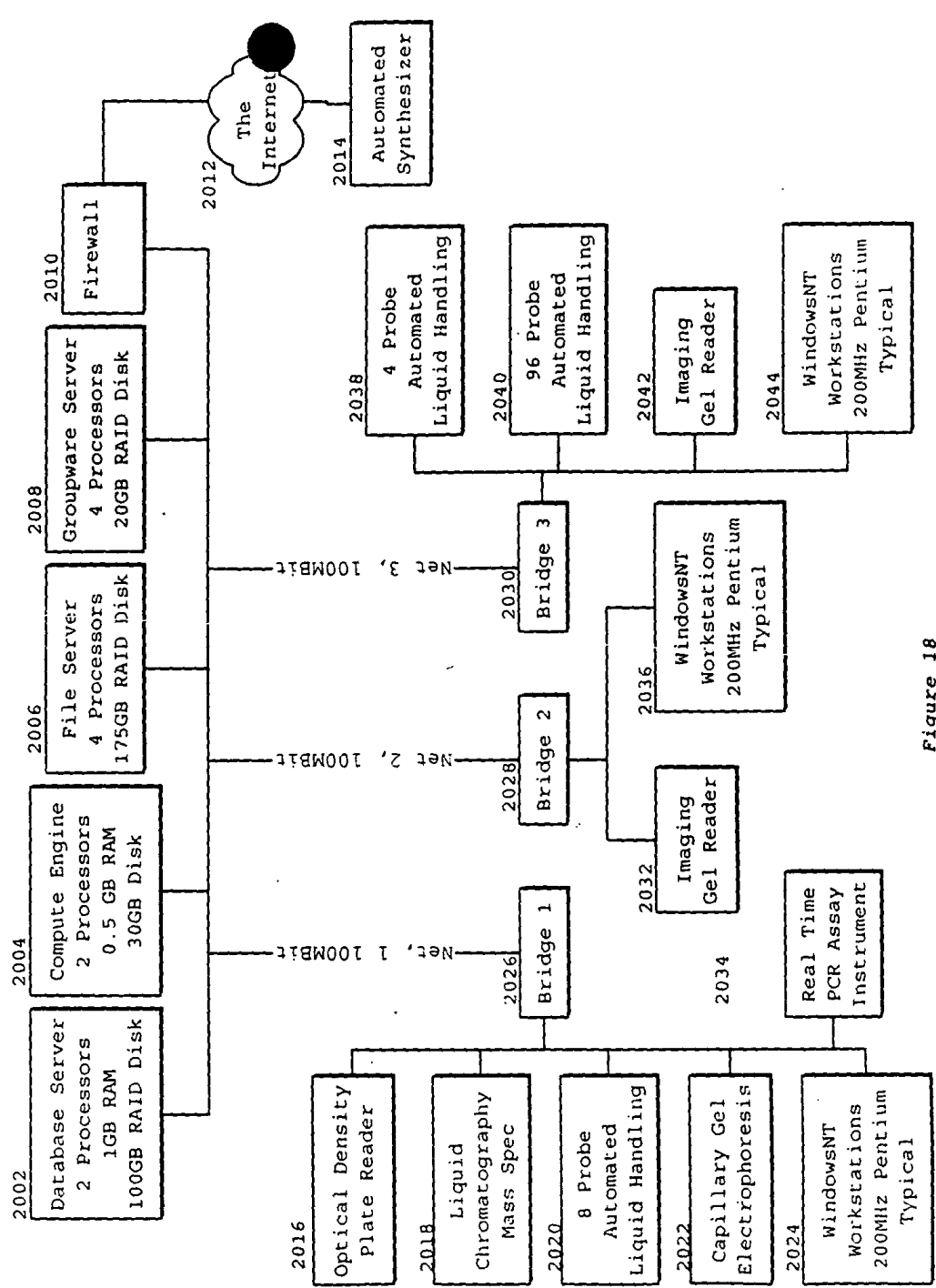


Figure 18

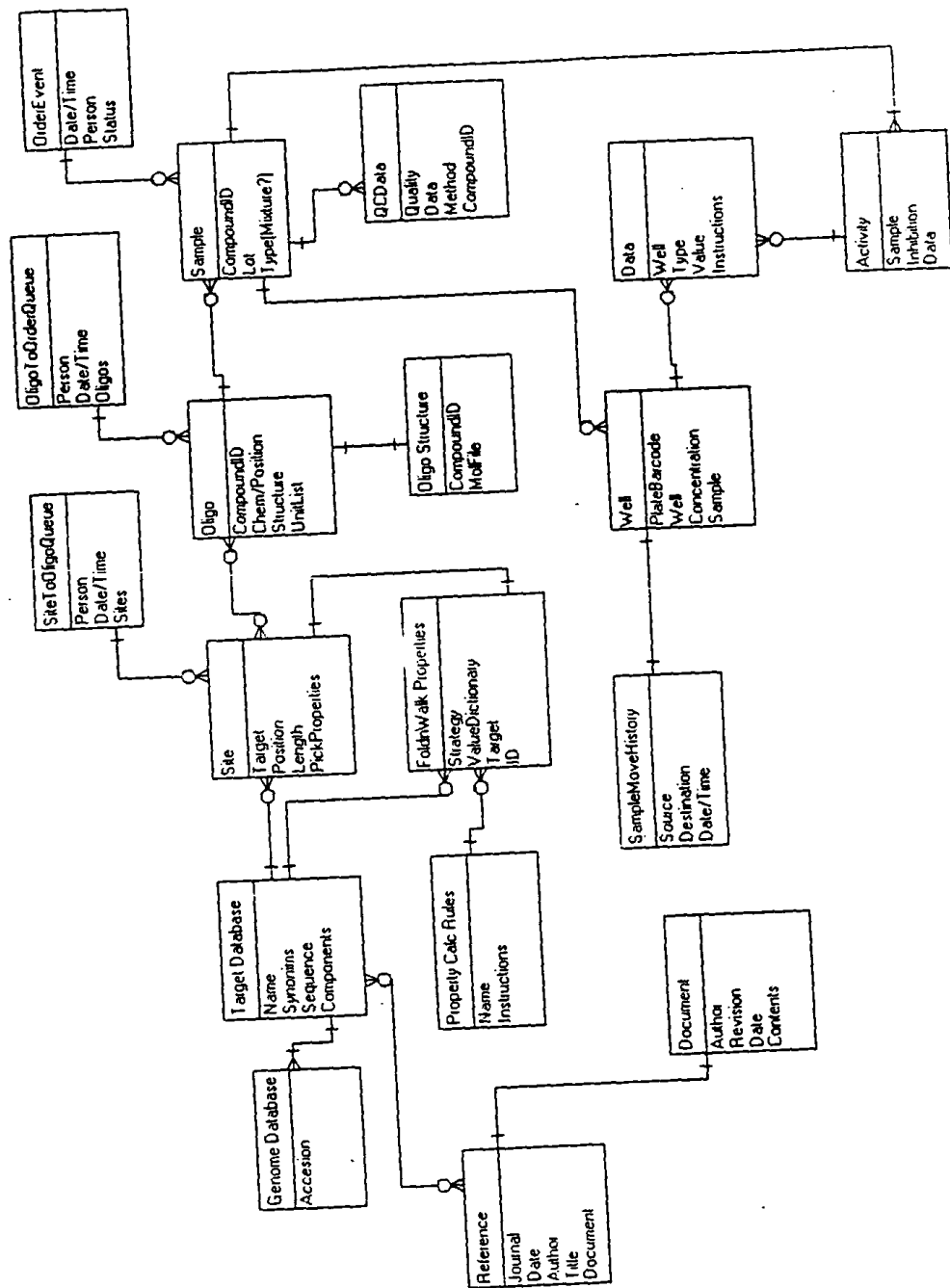


Figure 19

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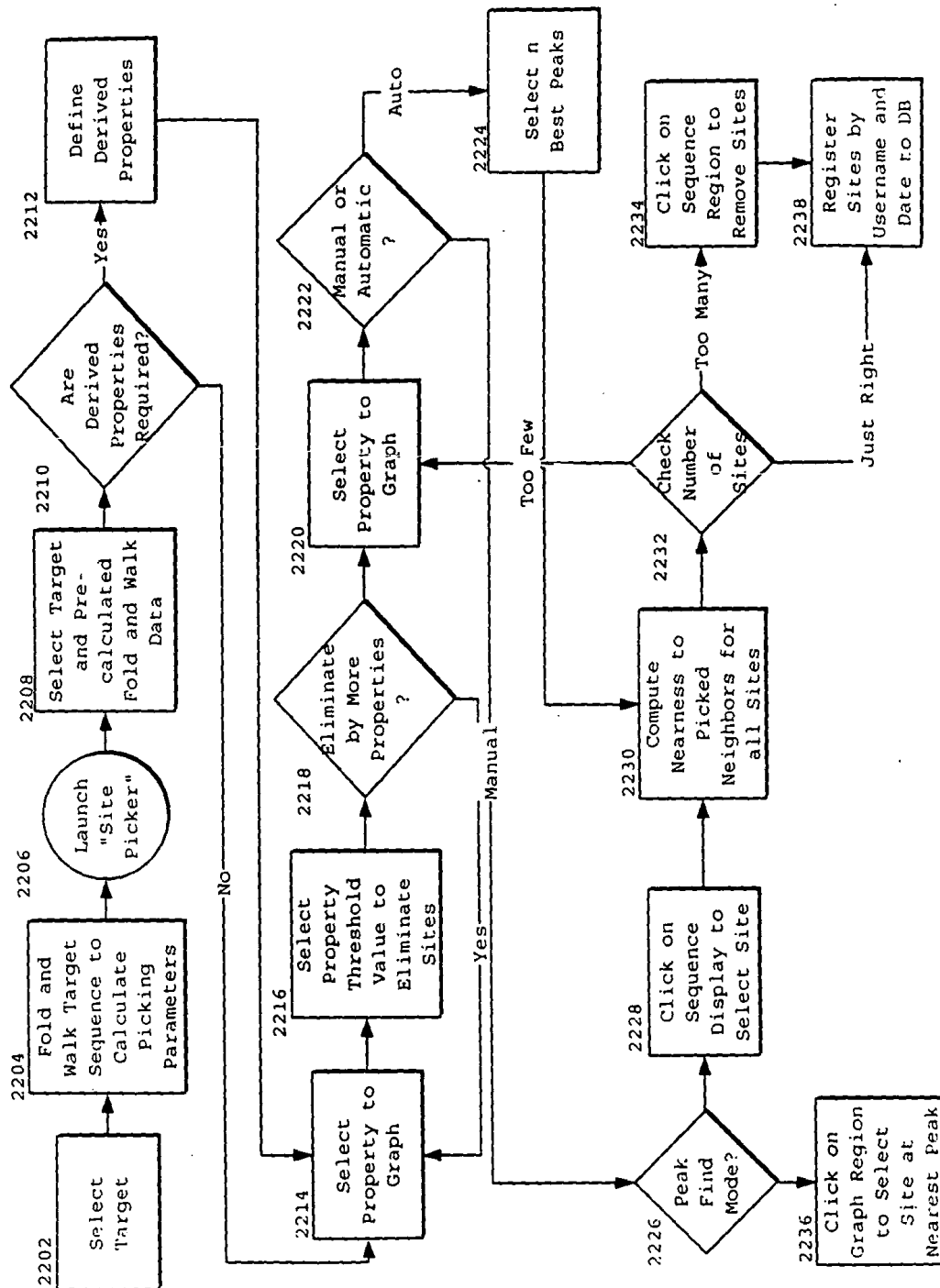


Figure 20

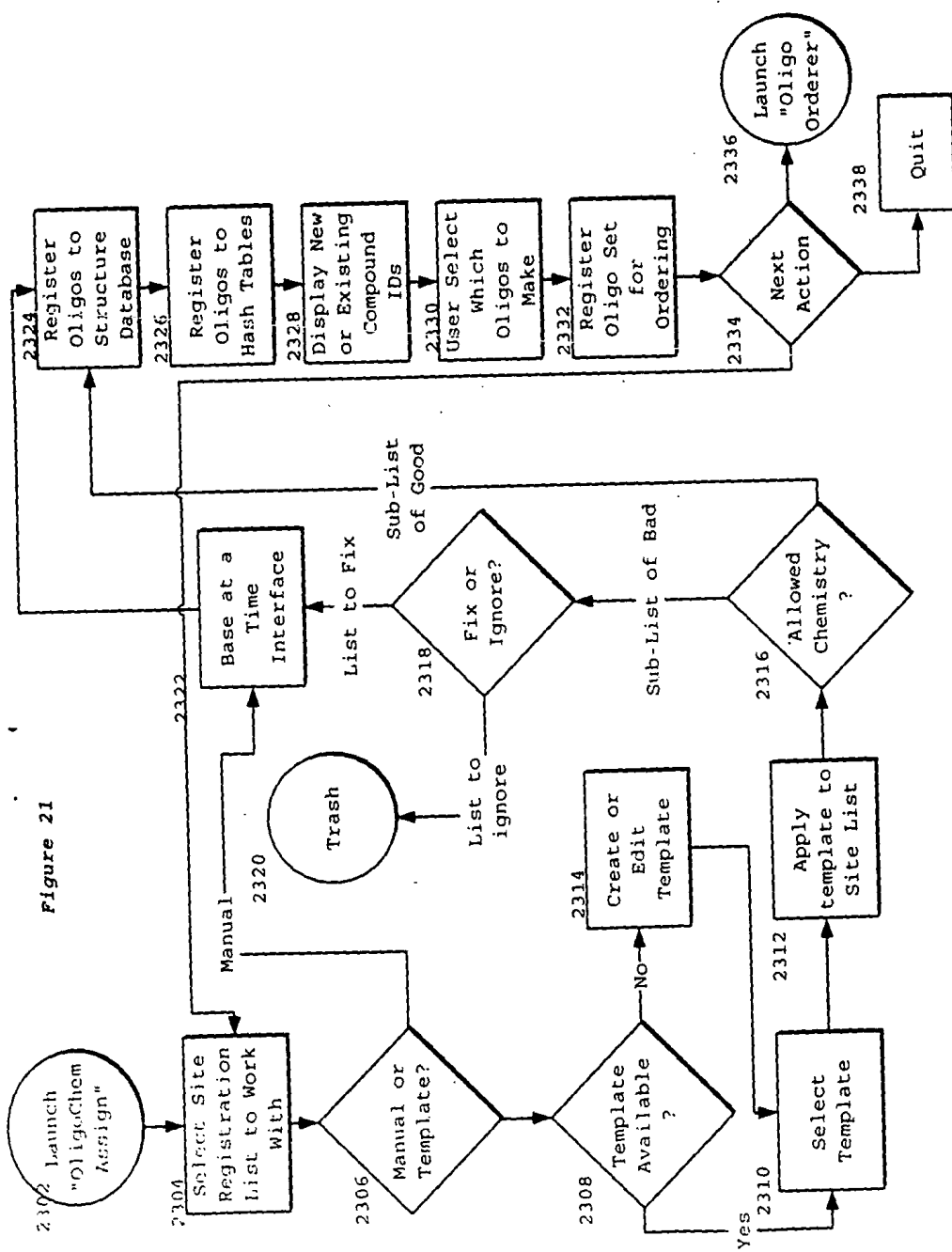


Figure 21

2302 Launch "OligoChem Assign"
2304 Select Site Registration List to Work With
2306 Manual or Template?
2308 Template Available?
2310 Select Template
2312 Apply template to Site List
2314 Create or Edit Template
2316 Allowed Chemistry?
2318 Fix or Ignore?
2320 Base at a Time Interface
2324 Register Oligos to Structure Database
2326 Register Oligos to Hash Tables
2328 Display New or Existing or Compound IDs
2330 User Select Which Oligos to Make
2332 Register Oligo Set for Ordering
2334 Next Action
2336 Launch "Oligo Orderer"
2338 Quit

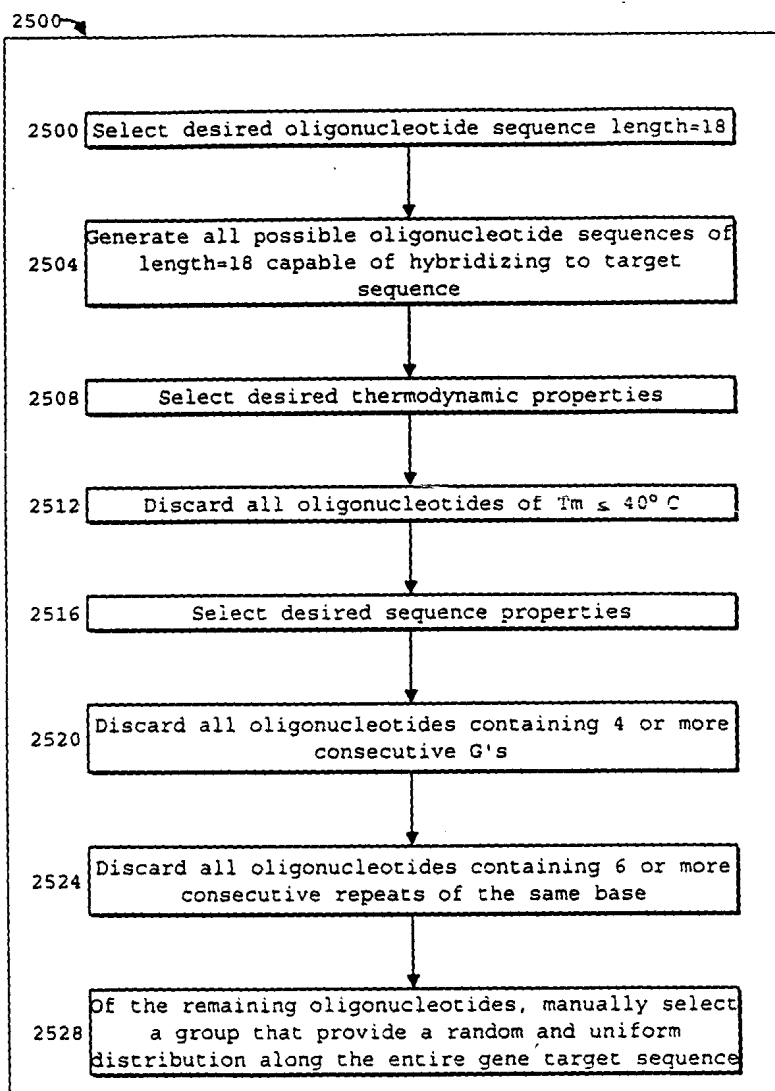


Figure 22

Figure 23

FIG. 24

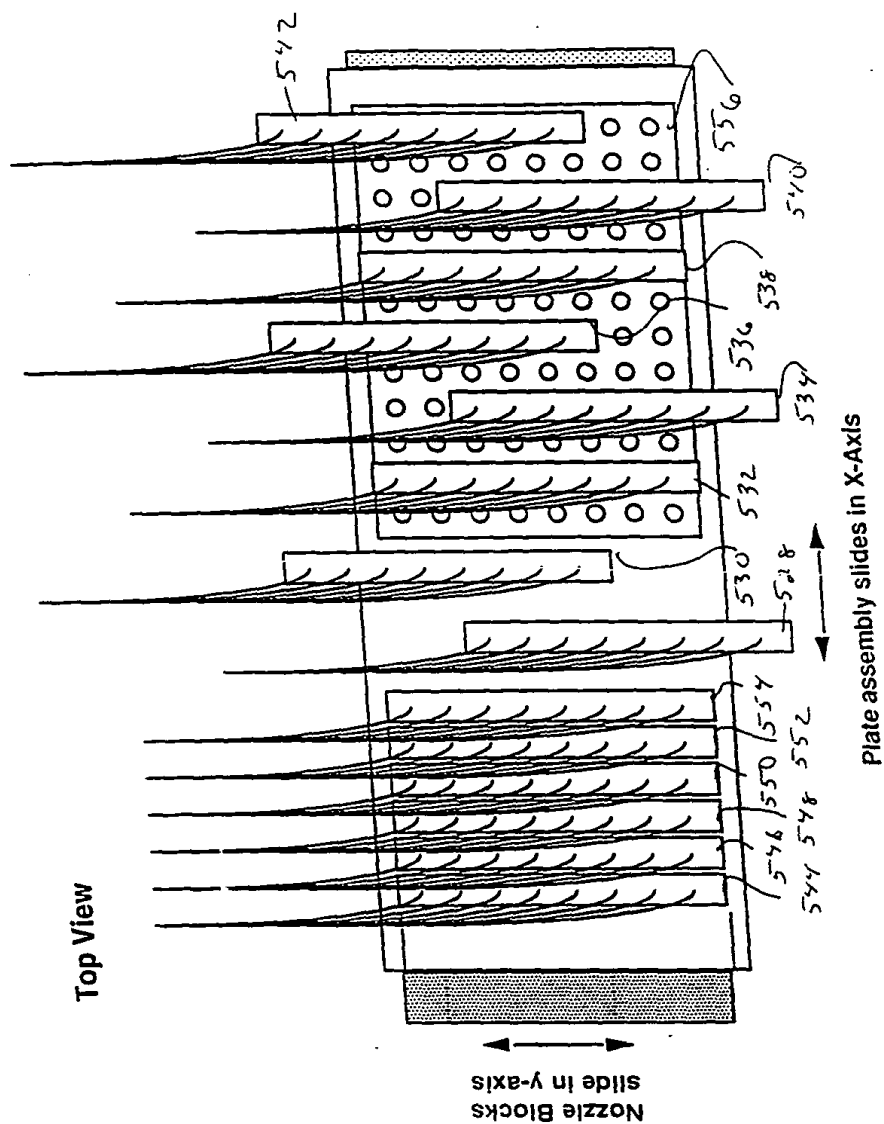


Figure 24